



## Test Procedure for the NCP5030MTTXG Evaluation Board

1. Visual inspection the board after solder, there should be no short, redundant solder ball.
2. Measure the resistance of each pin of NCP5030 to GND, there should be no short to GND (except pin GND) or each other. Measure the forward and backward resistance of D101/D102. Ensure solder is good.
3. Short J104;
4. Short J103;
5. Short J106 2-3(power supply from J101);
6. Configure J102 in 2-3 position;
7. Short J105, open J111,J108;
8. Configure J109 in 100mA position (pin1-2 shorted);
9. Configure power supply output voltage to 3.7V.
10. Power off and connect power supply to J101;
11. Power on, check D101 is lighting;
12. Power off and Configure J109 in 200mA position (pin3-4 shorted);
13. Power on, check D101 is lighting;
14. Power off and Configure J109 in 400mA position (pin5-6 shorted);
15. Power on, check D101 is lighting;
16. Power off and Configure J109 in 400mA position (pin7-8 shorted);
17. Power on, check D101 is lighting;
18. Power off and configure J102 at 1-2 position;
19. Configure J109 in 100mA position (pin1-2 shorted);
20. Power on, check D101 is lighting;
21. Power off, open J105, short J111 (if D102 mounted);
22. Power on, check D102 is lighting (if D102 mounted);
23. Power off, open J105, J111, connect J108 to external LED or LED module (if there is);
24. Power on, check external LED or LED module is lighting (if there is);
25. Power off;
26. Configure board default and connect jumpers accordingly
  - Place board in 900mA output current configuration:
    - Place jumpers on J109 1-2/5-6/7-8;
    - Place a jumper on J102 2-3;
  - Place jumpers on J103/J104;
  - Place a jumper on J105 and make sure J111 is open;
  - Place a jumper on J106 2-3;